

ap/1743

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Date: 8-20-02

By: Susan L. Baka

PATENT 9.4.02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:
Andreas MANZ et al.
APPLICATION No.: 09/995,554
FILED: November 28, 2001
FOR: METHOD FOR CONTROLLING SAMPLE INTRODUCTION IN MICROCOLUMN SEPARATION TECHNIQUES AND SAMPLING DEVICE

EXAMINER: BROWN NOT ASSIGNED
ART UNIT: 1743
CONFIRMATION No.: 1440

Information Disclosure Statement Within Three Months of Application Filing or Before First Action - 37 CFR 1.97(b)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

1. Timing of Submission

This information disclosure is being filed within three months of the filing date of this application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever occurs last [37 CFR 1.97(b)]. The references listed on the enclosed Form PTO-1449 (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

2. Cited Information

- Copies of the following references are enclosed:
All cited references
References marked by asterisks
The following:

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Copies of the following references can be found in parent U.S. Application No.

- All cited references
- References marked by asterisks
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The following references are not in English. For each such reference, the undersigned has enclosed (i) a translation of the reference; (ii) a copy of a communication from a foreign patent office or International Searching Authority citing the reference, (iii) a copy of a reference which appears to be an English-language counterpart, or (iv) an English-language abstract for the reference prepared by a third party. Applicant has not verified that the translation, English-language counterpart or third-party abstract is an accurate representation of the teachings of the non-English reference, though, and reserves the right to demonstrate otherwise.

- All cited references
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3. Effect of Information Disclosure Statement (37 CFR 1.97(h))

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

4. Fee Payment

No fees are believed due. However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-2207.

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Patent Term Adjustment (37 CFR 1.704(d))

- The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

Respectfully submitted,
Perkins Coie LLP

Date: 8-20-02



Larry W. Thrower
Registration No. 47,994

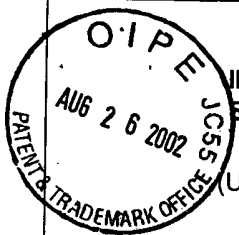
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Form PTO-1449 (Modified)
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Sheet	1	of	4	Application Number	09,995,554
				Confirmation Number	1440
				Filing Date	November 28, 2001
				First Named Inventor	Andreas Manz
				Group Art Unit	1743
				Examiner Name	Not Assigned
				Attorney Docket No.	50225-8066.US08

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear
		NUMBER	Kind Code (if known)			
		4,908,112		Pace	03/13/90	
		4,941,958		Byers	07/17/90	
		4,963,498		Hillman et al.	01/15/88	
		5,144,139		Hillman et al.	07/19/91	
		5,164,598		Hillman et al.	02/05/91	
		5,180,480		Manz	01/13/92	
		5,250,263		Manz	10/30/91	
		5,288,463		Chemelli	04/02/93	
		5,296,114		Manz	11/30/92	

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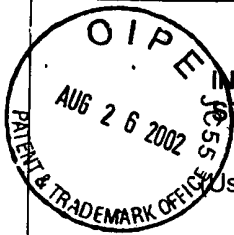
FOREIGN PATENT DOCUMENTS

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		Office	NUMBER	Kind Code (if known)				
			EP356160A2		Stanford University	08/17/89		
			EP376611A2		Stanford University	12/20/89		
			WO91/16966		Pharmacia Biosensor AB	05/08/91		
			UK2191110A		The Plessey Company plc	06/06/86		

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T
		Burggraf, N., et al., "Synchronized Cyclic Capillary Electrophoresis: A Novel Concept for High-Performance Separations Using Low Voltages", <i>Analytical Methods and Instruments</i> , <u>1</u> (1): 55-59 (1993).	
		Deml, M., et al., "Electric Sample Splitter for Capillary Zone Electrophoresis", <i>Journal of Chromatography</i> , <u>320</u> : 159-165 (1985).	

EXAMINER	DATE CONSIDERED
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		NUMBER	Kind Code (if known)			
		5,298,134		Zare et al.	05/20/93	
		5,376,252		Ekström et al.	11/10/92	
		5,480,614		Kamahori	03/16/94	
		5,599,432		Manz et al.	11/08/94	
		5,639,423		Northrup et al.	08/31/92	
		5,750,015		Soane et al.	03/13/96	
		5,858,195		Ramsey	02/03/97	
		6,001,229		Ramsey	08/01/94	
		6,280,589		Manz et al.	04/12/94	
		6,322,683		Wolk et al.	04/14/99	

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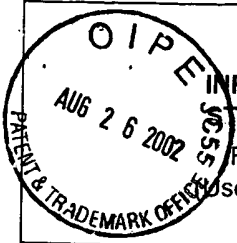
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		Effenhauser, Carlo S., "Effects of Electrokinetic Sample Injection on the Composition of Small Volume Samples in Capillary Electrophoresis", <i>Analytical Methods and Instrumentation</i> 1: (3) 172-176 (1993).	
		Effenhauser, C.S., et al., "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights", <i>American Chemical Society</i> 65: 2637-2642 (1993).	
		Harrison, D.J., et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip", <i>Analytical Chem</i> 64.(17):1927-1932 (1992).	

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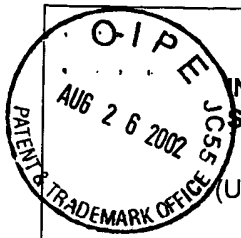
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		Harrison, D.J., <i>et al.</i> , "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip", <i>Science</i> <u>261</u> :895-897 (1993).	
		Harrison, D.J., <i>et al.</i> , "Miniaturized Chemical Analysis Systems and their Fabrication: An Alternative to Chemical Sensors", <i>The Electrochemical Society, Inc., Chemical Sensors II</i> , <u>93-7</u> : 546-552 (1993).	
		Harrison, D.J., <i>et al.</i> , "Rapid separation of fluorescein derivatives using a micromachined capillary electrophoresis system", <i>Analytica Chimica Acta</i> , <u>283</u> : 361-366 (1993).	
		Harrison, D.J., and Glavina, P.G., "Toward miniaturized electrophoresis and chemical analysis systems on silicon: an alternative to chemical sensors", <i>Sensors and Actuators B10</i> : 107-116 (1993).	
		Koutny, L.B., <i>et al.</i> , "Microscale Chemical Instrumentation: Capillary Separations on a Chip", <i>Thirty-Third ORN/DOE Conference On Analytical Chemistry in Energy Technology</i> (1992).	

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		Manz, A., et al., "Design of an Open-tubular Column Liquid Chromatograph Using Silicon Chip Technology", <i>Sensors and Actuators</i> , <u>B1</u> : 249-255 (1990).	
		Manz, A., et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing", <i>Sensors and Actuators</i> , <u>B1</u> :244-248 (1990).	
		Manz, A., et al., "Planar Chips Technology for Miniaturization of Separation Systems: A Developing Perspective in Chemical Monitoring", <i>Advances in Chromatography</i> , <u>33</u> : 2-66 (1993).	
		Pentoney, S.L., et al., "On-Line Connector for Microcolumns: Application to the On-Column o-Phthaldialdehyde Derivatization of Amino Acids Separated by Capillary Zone Electrophoresis", <i>Anal. Chem.</i> , <u>60</u> : 2625-2629 (1988).	
		Seiler, K., et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency", <i>Anal. Chem.</i> , <u>65</u> : 1481-1488 (1993).	
		Stegehuis, D.S., et al., "Analyte focusing in capillary electrophoresis using on-line isotachopheresis", <i>Journal of Chromatography</i> , <u>591</u> : 341-349 (1992).	
		Verheggen, P.E.M., et al., "Simple sampling device for capillary isotachopheresis and capillary zone electrophoresis", <i>Journal of Chromatography</i> , <u>452</u> :615-622 (1988).	

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